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Docket No.: LUD 5539.1 CIP  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Kohei Miyazono

Application No.: 09/267,963

Group Art Unit: 1647

Filed: March 12, 1999

Examiner: David S. Romeo

For: PROTEINS HAVING SERINE/THREONINE  
KINASE DOMAINS, CORRESPONDING  
NUCLEIC ACID MOLECULES, AND THEIR  
USE

**RESPONSE**

**RECEIVED**  
NOV 22 2002  
TECH CENTER 1600/2900

Commissioner for Patents  
Washington, DC 20231

Sir:

This is in response to an Office Action dated May 21, 2002 in this application. Applicants submit concurrently herewith a request for a THREE month extension of time and the requisite fee.

Please amend the application as follows.

**IN THE CLAIMS**

Please cancel claims 29-42 , 53, 50 and 51 without prejudice.

45. (Amended) A method for determining if a substance inhibits TGF- $\beta$ /Alk1 induced Smad1 phosphorylation comprising contacting a first sample of cells that express an Alk1 and Smad1 with said substance in the presence of TGF- $\beta$  and determining if Smad1 phosphorylation is inhibited, wherein a reduced level of phosphorylation in said first

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